

IAP12 Rec'd PCT/PTO 28 JUL 2006

PATENT  
32860-001088/US

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Heike BARLAG et al.  
Int'l Application No.: PCT/EP2005/050332  
Application No.: NEW  
Filed: July 28, 2006  
For: ELECTROCHEMICAL TRANSDUCER ARRAY AND USE  
THEREOF

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INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION CONCURRENT WITH THE  
FILING OF A NEW PATENT APPLICATION)

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314  
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July 28, 2006

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☒ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

- a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

Some of the attached patents, publications, or other information in the English language do not require a statement of relevancy.

- b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and PCT Preliminary Examination Report, along with a German translation aid translating key terms into English, indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

- c. ☒ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

- d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

We note that German Patent Publication No. DE 100 62 173 corresponds to U.S. Publication No. US 2004/0110230

- e. ☐ **EQUIVALENCY DOCUMENTS**

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New PCT National Phase Application  
Docket No. 32860-001088/US

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By:

  
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Reston, Virginia 20195  
(703) 668-8000

DJD:dpg

Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Documents
- ☒ International Search Report (PCT/ISA/210 and PCT/ISA/220)
- ☒ International Preliminary Examination Report (PCT/IPEA/416 and PCT/IPEA/409)
- ☐ Fee
- ☐ Other: German Translation Aid

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	NEW
		Filing Date	7-28-06
		First Named Inventor	Dr. Heike Barlag
		Art Unit	Unknown
		Examiner Name	Unknown
Sheet 1 of 2	Attorney Docket Number	2004P00205WOUS / WHT / KOE	

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-6 489 102 B2	03.12.2002	Wisconsin Alumni Research Foundation	
	2	US-2003/0017508 A1	23.01.2003	Chiron Corp.	
	3	US-2002/0195345 A1	26.12.2002	3M Innovative Properties Company	
	4	US-2001/0007373 A1	12.07.2001		
	5	US 2004/0110230 A1	10.6.2004		
	6	US 2002/139981 A1	10.3.2002	Keung	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	7	EP 0 504 196 B1	23.08.1995	Ecossensors Ltd.		
	8	DE 297 17 809 U1	16.04.1998	Kurt-Schwabe-Institut für Meß- u. Sensortechnik		X
	9	DE 44 22 049 C2	04.01.1996	Knoll, Meinhard, Prof. Dr.		X
	10	DE 44 27 921 C2	15.02.1996	Forschungszentrum Jülich GmbH		X
	11	DE 199 16 921 A1	19.10.2000	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eV		X
	12	DE 41 31 731 A1	19.05.1993	Dr. Raymond Glocker GmbH		X
	13	DE 100 62 173 C1	08.08.2002	Institut für Chemo- und Biosensorik Münster e.V.		X
	14	EP 1 304 563 A1	23.04.2003	Infineon Technologies AG		
	15	EP 0 193 251 B1	06.03.1991	Ciba Corning Diagnostics Corp.		
	16	WO 2004/001404 A1	31.12.2003	Becton, Dickinson and Company		
	17	DE 199 29 264 A1	11.01.2001	Knoll, Meinhard, Prof. Dr.		X
	18	WO 03/092073 A2	06.11.2003	Alien Technology Corp.		
	19	DE 100 09 729 A1	06.09.2001	Gesellschaft für Biotechno- logische Forschung mbH		X
	20	WO 02/02796 A2	10.01.2002	Inventus Biotec Gesellschaft für innovative Bioanalytik, Biosensoren und Diagnos- tika MBH & Co. KG		
		WO 03/043945A	5.30.2003	NCM; Roche Diagnostics		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Approved for use through 04/30/2003. OMB 0651-0031

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	NEW		
		Filing Date	7-28-06		
		First Named Inventor	Dr. Heike Barlag		
		Group Art Unit	Unknown		
		Examiner Name	Unknown		
Sheet	2	of	2	Attorney Docket Number	2004P00205WOUS / WHT / KOE

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	21	E. Jacobs et al.: "Analytical Evaluation of i-STAT Portable Clinical Analyzer and Use by Nonlaboratory Health-Care Professionals", Clinical Chemistry, 39, 1069 ff. (1993)	
	22	R. Thewes et al.: "Sensor Arrays for Fully Electronic DNA Detection on CMOS", ISSCC Digest of Tech. Papers, 2002, 350 ff.	

Examiner Signature		Date Considered	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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